Certificate of Mailing

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on December 11, 2003.

DEC 1 5 2003

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

西西南首 Application of:

Serial No.:

Filed:

tion of:

Bussear et al.

10/047,728

9
01/15/02

Apparatus and Methods for §
Using a Surface Based

Using a Surface-Based Oscillator as a Downhole

Seismic Source

Examiner: McCloud, R.

Art Unit: 2837

Attorney Docket No.: 284-15718-US

MS: AF

For:

Commissioner for Patents

P.O. Box 1450

Alexandria, VA. 22313-1450

## RESPONSE TO FINAL OFFICE ACTION **MAILED OCTOBER 24, 2003**

Sir:

In response to the final office action mailed October 24, 2003, please amend the above-identified application as follows:

Amendments to the Claims are reflected in the listing of claims, which begins on page 2 of this paper.

Remarks/Arguments begin on page 10 of this paper.